

Czechoslovakia / Analytical Chemistry.  
Analysis of Inorganic Substances.

E-2

Abs Jour: Ref. Zhur - Khimiya No. 2, 1958, 4334

lime, Talc and various slags are furnished. The analysis of materials which contain large amounts of  $\text{SiO}_2$  and small amounts of  $\text{CaO}$  and  $\text{MgO}$  is also described.

Card 3/3

TICHOMIROVA, V.; SIMACKOVA, O.

"Determination of calcium in the presence of a large excess of magnesium.  
In German."

p. 982 (Collection of Czechoslovak Chemical Communications. Sbornik  
Chekhoslovatskikh Khimicheskikh Rabot.) Vol. 22, no. 3, June 1957.  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

TICHOMIROVA, Vera, inz.

Standardization of limes and limestones. Normalizace 11  
no.5:148-150 My '63.

1. Oborove sdruzeni narodnich podniky pro vyroby maltovin a  
osinkocementu, Radotin u Prahy, Oborove normalizacni stredisko  
maltovin, Brno.

TICHOMOLOV, F. A.

"Synthese d'une molecule allenique asymetrique de la serie grasse au moyen d'une transposition acetylene-allenique"., Favorskij, A. E. et Tichomolov, P. A. )p. 1501)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1940, Volume 10, no. 16.

TICHOMIROV, V. I.  
V. V. IPATIEV, ZhOKh, 1931, 1, 594-597

1ST AND 2ND SERIES										3RD AND 4TH SERIES									
PROCESSING AND PROPERTY INDEX																			
BC										a-1									
<p>Diffusion of gases under pressure. V. V. IPATYEV, jun., and V. I. TROTSKY (J. Gen. Chem. Russ., 1961, 3, 788-789).—The diffusion coeff. of <math>H_2</math> in <math>H_2O</math> has the same val. at 1 as at 100 atm. pressure, viz., 3-08; in 80% <math>NaOH</math> solution the val. at 100 atm. is 0-99, in <math>MeOH</math> 14-52, and in <math>C_2H_6</math> 90-94.</p> <p>R. TROTSKY.</p>																			
<p>ASTM-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																			
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BC

2-1

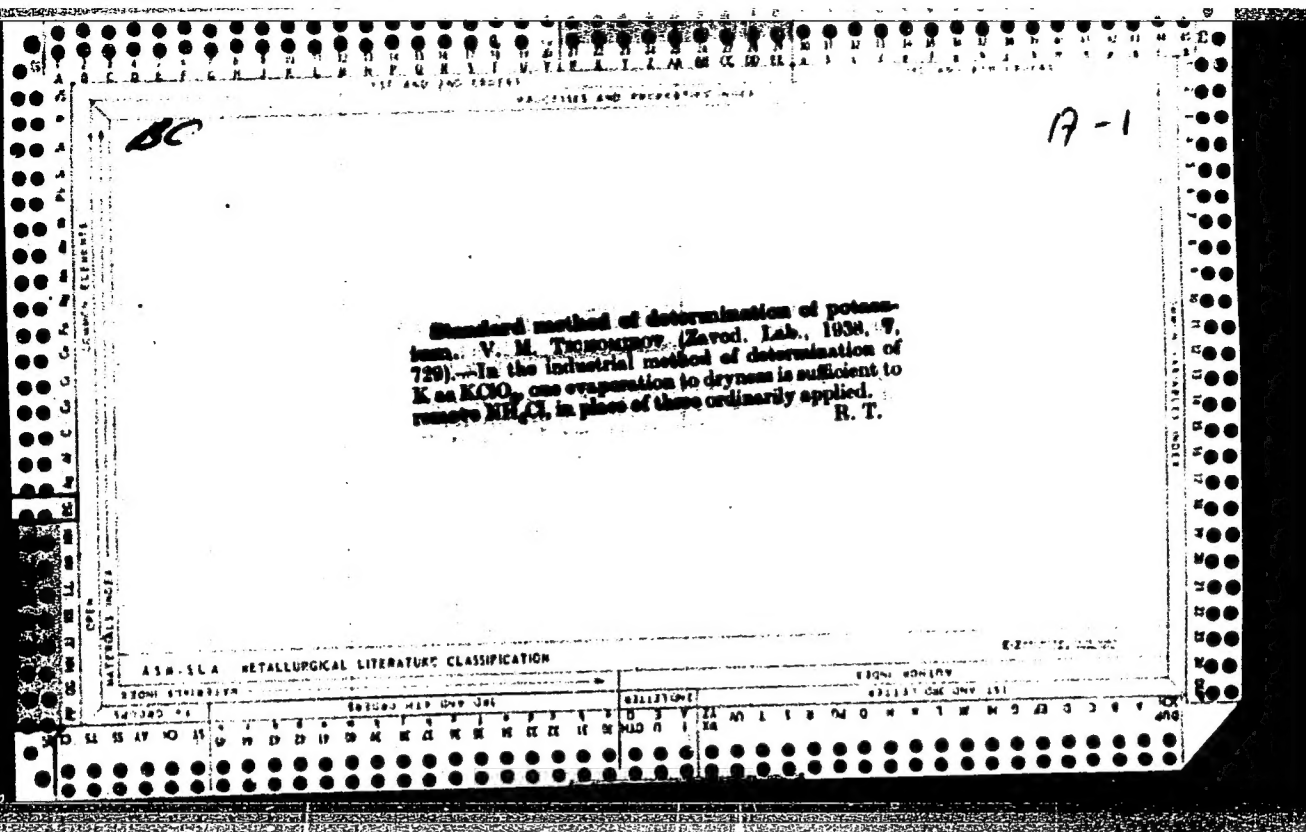
Application of the Berzlius-Lassen reaction to the rapid determination of potassium. V. M. Tikhonov and B. N. Gerasimov (Zavod. Lab., 1938, 7, 23-24). — K is determined as  $K_2CaPt(NO_3)_6$  which is pptd. and washed at 7-10°, and weighed; the results differ by 0.2-0.4% from those given by the perchlorate method. The method is not applicable to chlorides containing <8% of KCl, owing to pptn. of  $PbCl_2$  from the solutions. B. T.

ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION

GROUPS

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100





1ST AND 2ND ORDERS										100 AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
BC										B-I-8									
<p>Losses of potassium chloride in the gases from rotary digesters. <i>E. M. Tammann (Zell, 1907, No. 14-15). Investigations carried out at the East Potash Machine Factory, U.S.S.R., show that losses of KCl after the cyclone installation following the dryer amount to 0.4%. Tables showing constants and analysis of the dust collected are given.</i></p> <p>D. O.</p>																			
ASR-5LA METALLURGICAL LITERATURE CLASSIFICATION										S2000 BOW/IV									
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COMMON ELEMENT										PROCESS AND PROPERTIES INDEX										COMMON VARIABLE INDEX									
<p>BC</p>										<p>12-1</p>																			
<p>Viscosity in the system phenol-carbon and            pyridine. A. D. VIKHODASOVA, A. M. TRO-            SHOVA, and N. N. KRAMOV (Inst. Acad. Sci. U.S.S.R.,            Moscow, 1957-1958). — The composition is 1-1 comp.            at 100°C. At a total constant pressure curves of the            system showed no evidence of the compound forma-            tion which is suggested by the phase diagrams.            R. T.</p>																													
<p>ASM-A.A. METALLURGICAL LITERATURE CLASSIFICATION</p>																													
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<div style="position: absolute; top: 10%; left: 10%;">BC</div> <div style="position: absolute; top: 10%; right: 10%;">B-7-1</div> <div style="position: absolute; top: 20%; left: 30%; width: 60%;"> <p><b>Prediction of Acetylenes by oxidation of gaseous products of pyrolysis and cracking.</b> II. M. M. Dargatzis and V. Monastova (Ann. Rept. Chem., 1968, No. 5, p. 25; M. R. 1968, 631). The oxidation was carried out with air at 280–340°, using a Y<sub>2</sub>O<sub>3</sub>-zirconia type of catalyst refractory clay as matrix. The gases contained 2–11% of CH<sub>4</sub>, 2–34% of HCOOH and 6–7% of ACOH. Traces of H<sub>2</sub>O<sub>2</sub> were found in the oxidation products and CO<sub>2</sub> and C<sub>2</sub>H<sub>4</sub> in waste. The amounts from 0.1 to 0.2 mole/mole were considerably larger. The authors' conclusions were that. Ch. And. (c).</p> </div>																																																					
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*B-D-7*

Acid catalysts for dehydration of castor oil.  
V. VARGANOV and N. DUDKINA (Mosk. Khim. Zhurn.,  
1940, No. 1, 33-36).—Elimination of H<sub>2</sub>O  
from the ricinoleic acid of castor oil is complete after  
heating for 8 hr. at 250° with 0.5% of H<sub>2</sub>SO<sub>4</sub>,  
Al(HSO<sub>4</sub>)<sub>3</sub>, H<sub>3</sub>PO<sub>4</sub>, or ANH<sub>4</sub>PO<sub>4</sub>. R.T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
<div style="display: flex; justify-content: space-between;"> <span>BC</span> <span>p. 3</span> </div> <p>Oxidation of acetylene-<math>\gamma</math>-pyrone, 3:4-Dihydro-2:2:5:5-tetraphenyltetrahydrofuran. P. A. TICHOMOLOV and A. E. DAVYDIN (J. Gen. Chem. Russ., 1937, 7, 888-8 2). <math>-(OH-CH_2-Cl)_2</math> in AcOH and <math>CrO_3</math> yield 2:4-dihydro-2:2:5:5-tetraphenyltetrahydrofuran (phenylglyoxane, m.p. 124°; mon. form, m.p. 216° (decomp.); compound with <math>C_6H_5(NH_2)_2</math> m.p. 240-250° R. T.</p>																																																			
<div style="display: flex; justify-content: space-between;"> <span>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</span> <span>8-2-1111111111</span> </div>																																																			
1ST DIVISION													2ND DIVISION													3RD DIVISION													4TH DIVISION												
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BC

A-3

Mutual influence of radicals on their migration. II. Dehydration of phenyltert.-benzylcarbinol. A. K. FAVORSKI and P. A. TRIMMOLLOV (Comp. rend. Acad. Sci. U.S.S.R., 1936, 4, 366-368; cf. A., 1936, 731).—Phenyltert.-benzylcarbinol, b.p. 130–130.5°/7 mm. (obtained by reduction (Na-EtOH) of the corresponding ketone), is converted by distillation from  $\text{KHSO}_4$  into 2-phenyl-2-methyl-2-propane, b.p. 81.75–82.5°/8 mm., which yields  $\text{COH}_2\text{COPhEt}$  and  $\text{MeCHO}$  when ozonized. (Comparison with the behaviour of phenyltert.-amylcarbinol (*loc. cit.*) suggests that group migration precedes dehydration. F. N. W.

ASB-SLA DETAILING LITERATURE CLASSIFICATION

BC

Metastable influence of radicals on their migration. Dehydration of phenyltert.-amylcarbinol. A. E. FAVONSKI and F. A. TICHOMOLOV (J. Gen. Chem. Russ., 1935, 8, 1979-1983).— $\text{COF}_2$ ,  $\text{NaNH}_2$ , and  $\text{MeI}$  afford FA test. anal. latens, b.p.  $106-107^\circ/8$  mm., reduced by Na in  $\text{EtOH}$  to the corresponding carbinol (I), b.p.  $124.5-125.5/12-13$  mm. (I) is converted by distillation from  $\text{KMnO}_4$  into  $\alpha$ -dimethyl- $\beta$ -methylpropene, b.p.  $30.5-30.7/25-5$  mm.  $300.5-307^\circ/764$  mm., which yields carbide and  $\text{COMeEt}$  when oxidized. *Received Oct. 8, 1935.*

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

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<p>130</p> <p>11 3</p> <p>Oxidation of acetylenic glycols. The <math>\alpha</math>-di-ketones of the tetrahydrofuran series. T. I. TUNIKOVA and P. A. TUMENOV (J. Russ. Phys. Chem. Soc., 1980, 62, 1217-1222).—Oxidation of tetraethylbutanediol, m. p. 156°, with chromic acid gave 2:2':5:5'-tetraethyl-3:4-diketotetrahydrofuran, deep purple, m. p. 162°, which on further oxidation yielded ditolyl ketone, m. p. 93°; a phenylhydrazones, m. p. 104-106°, oxime, m. p. 226°, and quinoxaline, m. p. 230-231°, were also obtained.</p> <p>M. ZVEREV.</p>																																																																																																																																	
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PROCESSES AND PROPERTIES A 12

26

Comparative tests of nitrocellulose lacquer coats on duraluminum and wood.  
 Tichonov. - *Malyarov Dela* 1932, No. 1, 36. Nitrocellulose lacquers were tested  
 thoroughly on duraluminum and wood parts of airplanes, and found satisfactory. Also in  
*Nitrocellulose* 3, 227.  
 R. M. Svyatov

ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION

E-2

12

Mathematical Theory of the Thermoelectric Couple. A. Tichonov (Comp.  
Zeml. Acad. Sci. U.R.S.S., 1935. [N.S.], 4, (4/5), 177-182).—[In French.] S. 6.

ASME 3.1 METALLURGICAL LITERATURE CLASSIFICATION

*R. 26*

*Application of the electrode couple platinum and graphite for potentiometric titration in neutralization and oxidation-reduction reactions. A. S. Tikhonov, (Zashch. Lab., 1930, 8, 17-19).—The pair Pt-pencil core can be used for oxidation and reduction titrations but not for neutralization. J. J. B.*

FRYNTA, Vladimir, inz; TICHOPAD, Vladimir, inz.

A tilt-wing aeroplane. Letecky obzor 5 no.11:349-351 '61

L 30014-66 EMP(k)/DET(C) ETI ET(c) JD/HW  
ACC NR: AP6020099 SOURCE CODE: CZ/0057/66/000/002/0076/0079

AUTHOR: Wiesner, Frantisek (Engineer; Candidate of sciences); Tichopadova, Eva (Engineer) 29

ORG: Research Institute for Iron Metallurgy, Prague (Vyzkumny ustav hutnictvi zeleza) B

TITLE: Production of belts with rounded edges by wire rolling 6

SOURCE: Hutnik, no. 2, 1966, 76-79

TOPIC TAGS: alloy steel, carbon steel, wire, metal rolling

ABSTRACT: Wire rolling is an economical process for the production of narrow belts of exact dimensions with rounded edges, both in carbon and in alloy steels. The author suggests construction of rolling plants for this production in Czechoslovakia; the drives should use DC current motors, and provide for a regulation of the rolling speed and of the tensions applied to the wire and the belts. The belts may be 0.1 to 15 mm wide, and 0.02 to 4 mm thick. Factors influencing the width of the produced belt are described; the influence of the material from which the wire is made is discussed. Rollers used in this application are described, and methods of operation evaluated. Orig. art. has: 5 figures. [JPRS]

SUB CODE: 11, 13 / SUMM DATE: none / ORIG REF: 001 / OTH REF: 003

Card 1/1 *So*

TICHOPADOVA, E., inz.

"Determination of the most effective blooming mill operation"  
by V.A. Choros, M.E. Bojko, L.D. Kossovskij, M.S. Svyrev,  
P.I. Kopytin, I.I. Rusanov. Reviewed by E. Tichopadova.  
Hut listy 19 no.1:57-58 Ja'64.



HRBEK, A.; CERNY, V., inz.; PUNCOCHAR, Z., inz.; BECVAR, J., inz.; KECLIK, V.,  
inz.; TICHOPADOVA, E., inz.; KREMER, R., inz.; ZIDEK, M., inz.;  
TEINDL, J.; SESTAK, B., inz.

Information on metallurgy. Hut listy 17 no.12:887-902 D '62.

89397

18.1130

Z/034/61/000/004/003/005  
E073/E335

AUTHORS: Tichopádová, E. and Wiesner, F.  
TITLE: Development of the Technology of Manufacturing  
Tubes, Strip and Wire from the Austenitic Stainless  
CrMnNiN Economy Steels  
PERIODICAL: Hutnicke listy, 1961, No. 4, p. 284  
TEXT: The authors solved the problem of forming the  
austenitic stainless CrMnNiN type economy steel which can  
substitute to a large extent the currently-used type 18/8  
CrNi steel, resulting in a very considerable saving of scarce  
Ni. The following were produced: welded polished tubes of  
10/1 mm dia. and 52/1.2 mm dia; hot-rolled and cold-drawn  
electrode wires of 1.20, 3.25 and 4 mm dia; open sections  
635/1 mm from hot- and cold-rolled strip and accurate seamless  
tubes of 40/1.5 mm dia. Compared with the type 18/8 steel,  
the resistance-to-forming of this steel is slightly higher in  
the hot state and 20-25% higher in the cold state. This  
economy steel is to be used as a substitute for 18/8 steel  
whenever possible.

Card 1/2

89307

Development of the ....

Z/034/61/000/004/003/005  
E073/E335

(Abstractor's note: this is a complete translation.)

ASSOCIATION: Výzkumný ústav hutnictví železa  
(Ferrous Metals Research Institute)

X

Card 2/2

Z/057/63/000/001/001/001  
2073/E335

AUTHORS: Tichopádová, Eva, Engineer and Wiesner, František,  
Engineer, Candidate of Sciences

TITLE: Malleability of the economy austenitic steel  
type CrMnNiN

PERIODICAL: Hutník, no. 1, 1963, 26 - 30

TEXT: The hot- and cold-forming properties of two heats of an economy steel containing approximately 9.5% Mn, 4.7% Ni, 17.8% Cr, 0.11% Cu and 0.32% N<sub>2</sub> were investigated. Compared with 18/8 steel, the plasticity of the new steel in the hot and cold states is higher, although the resistance to hot- and cold-forming is about 10 to 20% higher. In torsion tests the largest number of twists were obtained in the temperature range 1275 to 1300 °C, whereby the torque reached during these tests was higher for the new nitrogen-containing steels than for the nitrogen-free comparison steel (18% Cr, 10% Ni). Nitrogen has no influence on the malleability at the forming temperatures but increases somewhat with the sensitivity of the steel to overheating. The speed of work-hardening was about equal for both types of steel. The developed steel is suitable for substituting 18/8-type steel in all

Card 1/2

Malleability of ....

Z/057/63/000/001/001/001  
E073/E335

cases in which approximately the same resistance to corrosion is required and slight differences in the mechanical properties are tolerable. There are 11 figures and 4 tables.

ASSOCIATION: VÚHZ, Prague

Card 2/2

Z/032/61/011/005/007/008

E073/E535

AUTHORS: Tichopádová, E. and Wiesner, F.

TITLE: Development of the Technology of Manufacture of Tubes,  
Strip and Wire from Economy Austenitic Stainless  
Steel CrMnNiN

PERIODICAL: Strojírenství, 1961, Vol.11, No.5, p.396

TEXT: The problem of forming stainless austenitic economy steels of the type CrMnNiN is solved which will permit replacing to a large extent the currently used type 18/8 CrNi steel, thus saving considerable quantities of Ni. Welded polished tubes of diameters 10/1 mm and 52/1.2 mm were produced and also electrode wire, hot-rolled and cold-drawn, of 1.20, 3.25 and 4 mm diameter, bent-open sections 635/1 mm from hot- and cold-rolled strip and accurate seamless tubes of 40/1.5 mm diameter. The resistance-to-shaping of this steel is only slightly higher in the case of hot-forming and 20-25% higher in the case of cold-rolled than for the 18/8 type steel. This economy steel can successfully substitute 18/8 steel whenever operating conditions permit.  
Report No. VÚHŽ RV-25-1-52, Prague, 1960.

[Abstractor's Note: Complete translation.]  
Card 1/1

Z/056/62/019/007/007/007  
1037/1237

**AUTHOR:** Tichoplav, B. Ju.

**TITLE:** A new type of gas turbine for ocean ships and the arguments for its use.

**PERIODICAL:** Přehled technické a hospodářské literatury. Hutnictví a strojírenství v. 19, no. 7, 456, abstract HS62-5808 (Sudostrojenije v. 27, no. 11, 1961 XI, 19-23)

**TEXT:** Discussion on the necessity for developing a special driving motor for ocean ships on the underwater decks and description of one of the many possible solutions of the problem. Use of a special gas turbine with a divided gas consumption for the compression and propulsion turbine and with the ship propeller rotating around the horizontal axis. This turbine has advantages over airplane and other light ship turbines. It increases the driving power of the ship propeller by 15-20%. Wide possibilities for steering with this gas turbine. Its location under sea level gives new possibilities for cooling the propulsion turbine. Some complication difficulties in the construction of two combustion compartments is the access to the underwater gondola. There are 1 drawing, 1 scheme, 6 diagrams, and 2 references.

[Abstracter's note: Complete translation.]

Card 1/1



KOMPRDE, Jiri; TICHOTA, Vitezslav

Treatment of sequelae of Volkmann's ischemic contracture by the  
disinsertion. Acta chir. orthop. trauma. Cech. 28 no.6:549-552  
D '61.

1. Ortopedické oddelení OUNZ v Jihlavy, přednosta MUDr. V. Tichota.  
(VOLKMANN'S CONTRACTURE surg)



HUNGARY

Diagnosis

JELES, Janos, Dr., TICHY, Anna, Dr.; Megye Tb. Sanitarium (director: LAKATOS, Pal, Dr) (Megyei Tbc. Gyogyintezet), Tatabanya.

"On Pulmonary Aspergilloma."

Budapest, Orvosi Hetilap, Vol 107, No 46, 13 Nov 66, pages 2191-2193.

Abstract: [Authors' Hungarian summary] A case of pulmonary aspergilloma is described. The 41 year old animal breeder was completely free of complaints and symptoms and the disease was diagnosed on the basis of pathohistological examinations. In the case reported, an existing tumor anamnesis represented some differential diagnostic problems. 6 Hungarian, 10 Western references.

JAHN, M.; POLIVKA, V.; TICHY, A.

Arthrogryposis congenita multiplex in a 1-month-old child.  
Cesk. pediat. 20 no.2:150-152 F '65

1. Detske oddeleni nemocnice s poliklinikou v Karvine IV, Raji  
(vedouci MUDr. V. Polivka); Patologickoanatomicke oddeleni krajske  
nemocnice s poliklinikou v Ostrave (vedouci: doc. dr. C. Dvoracek).

KALINA, J.; TICHY, A.

Curling's ulcer in burns. Rozhl. chir. 42 no.4:246-251 Ap '63.

1. Oddeleni pro lecbu popalenyh pri chirurgickem oddeleni krajske nemocnice s poliklinikou v Ostrave, vedouci doc. dr. K. Typovsky, CSc. Oddeleni patologicke anatomie krajske nemocnice s poliklinikou v Ostrave, vedouci doc. dr. C. Dvoracek.

(BURNS) (DUODENAL ULCER)

9.9.165  
S/194/62/000/006/232/232  
D256/D308

AUTHORS: Tichý, Bedřich, Děčín, Kurt, and Klika, Vilém

TITLE: Method of producing heavy-duty coax-cable

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-8-73 ch (Czechosl. pat., kl. 21 c, 3/05, 21 a<sup>4</sup>, 73, no. 98454, 15.12.61)

TEXT: It is proposed to produce the insulating cord of the heavy-duty radiofrequency cable 25/90 as a hollow sleeve made of polyethylene, 30 to 32 mm outside diameter and 3 mm wall thickness. The sleeve is laid onto the inner conductor tube (20 mm ID) to form a helix with a step of 300 to 400 mm. After inserting the assembly of the inner conductor with the sleeve into the outside conductor tube (100 mm OD), warm water under pressure is circulated through the sleeve. By increasing the pressure of the water the diameter of the sleeve is increased, producing a tight fit to both the inner and the outside conductor tubes; the shape of the sleeve remaining undisturbed by cooling the water. The water is drained and after drying the sleeve, gas under excess pressure is fed provisionally  
Card 1/2

Method of producing heavy-duty coax.... S/194/62/000/006/232/232  
D256/D308

into it in order to increase the pressure of the insulation layer against the conductors when reeling the cable, and also during the transportation and assembly. The space between the conductors is kept dry by the gas escaping through the walls of the sleeve.

[Abstracter's note: Complete translation.]

Card 2/2

38724

S/194/62/000/005/001/157  
D222/D309

9.7200

AUTHORS: Pěnka, Vítězslav, and Tichý, Ceník  
TITLE: Electric analogue computer

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 5, 1962, abstract 5-1-30d (Chekhosl. pat., kl. 42m,  
14, no. 97789, 15.12.60)

TEXT: A patent for a new constructional method for electrical (elec-  
tronic analogue computers, which makes the assembly of required cir-  
cuit configurations easy. The analogue computer is built in the form  
of a cabinet (see diagrams 1-2, 3), 1, the front of which holds the  
main programming panel 2, equipped with a plugboard 6, functional  
and operative units 3 (the so-called main chassis), and potentiome-  
ter blocks (or RC circuits) 4, with plugboards 8 (the so-called auxi-  
liary chassis). Each of the blocks 3 and 4 contain amplifier or po-  
tentiometric elements built according to conventional circuitry.  
The internal arrangement of the analogue computer enables the inter-  
connection of the inputs and outputs units 3, leads 12 and sockets 8  
of the corresponding block 4 and units 3 through leads 10 and sock-  
Card 1/2

Electric analogue computer

S/194/62/000/005/001/157  
D222/D309

ets 6 of the main plugboard on 1 (see figure 3). There are several sockets, 6 and 8, connected to each of the blocks 3 and 4, which makes it easy to assemble the required circuit. The blocks 3 and 4 are connected to the internal assembly via the multiway plugs 11 and 9. The main switching plugboard 2 is connected to the internal assembly through leads 13, and multiway plugs 7 (figure 2). All (or most) of the blocks 3 and 4 are removable. The front side of the cabinet holds also the supply unit Z, the blocks of nonlinear elements N, the matching transformers P and multiplier blocks 5. The horizontal parts of the chassis 3, 4, N, P and 5 are narrower than their front parts, and the resulting gap is used for the internal interconnecting cables of the computer. Examples are given for the realization of different circuits. 7 figures. [Abstractor's note: Complete translation].

X

Card 2/1 Z

TICHY, H., prof.

Practical indications for the interpretation of some serological examinations in rheumatology. Med. intern. 14 no.7:789-794 JI '62.

1. Dresda, directorul Institutului de reumatologie din Dresda.  
(SERODIAGNOSIS) (ARTHRITIS, RHEUMATOID) (HEMAGGLUTINATION)  
(ANTISTREPTOLYSIN) (RHEUMATIC HEART DISEASE) (HYALURONIDASE)  
(STREPTODORNASE AND STREPTOKINASE)



TICHY, H.

Diagnostic serological standards as an aid for the general practitioner in recognizing inflammatory rheumatic diseases. Reumatologia (Warsz.) 1 no.2:87-94 '63.

1. Z Instytutu Reumatologicznego w Dreźnie (Dyrektor: prof. dr H. Tichy).

TICHY, Jiri, MUDr; ~~TICHA, Jiri~~, MUD

Cholelithiasis and atherosclerosis. Cas. lek. cesk. 93 no.49:1350-1352 3 Dec 54.

1. & II. patologicko-anatomickeho ustavu Karlovy university v Praze, prednosta prof. Dr.V.Jedlicka (for Tichy)

(CHOLELITHIASIS, complications  
arteriosclerosis, statist. survey)

(ARTERIOSCLEROSIS, complications  
cholelithiasis, statist. survey)

TICHY, J.

Relation of the cholesterol level to the composition of the cerebrospinal fluid and to its protein content. Cesk. neurol. 27 no.2:123-129 Mr'64

1. Neurologicka klinika fakulty vseobecneho lekarstvi KU v Praze; prednosta: akademik K.Henner.

TICHY, J.

On bromsulfalein (BSP) tests. I. Cesk. gastroent. vyz. 17  
no.8:481-489 D'63

1. I interni klinika lekarske fakulty Palackeho University  
v Olomouci; prednosta prof. dr. P. Luki.

L 21354-66 EWP(k)/I/EWP(w)/EWP(t) JD/HW  
 ACC NR: AP6010892 SOURCE CODE: CZ/0034/65/000/008/0575/0579

AUTHOR: Tichy, Jiri (Engineer)

ORG: VZU NMKG, Ostrava-Kuncice 32  
B

TITLE: Effect of extended annealing upon the structure and mechanical properties of large forgings 4

SOURCE: Hutnicke listy, no. 8, 1965, 575-579

TOPIC TAGS: annealing, steel, pearlite, steel forging, spheroidization, vanadium alloy, manganese alloy

ABSTRACT: The influence of annealing at 680°C, and of the rate of cooling between 680 and 400°C upon the spheroid structure of the carbide component of the pearlite in Czechoslovak steel CSN 13 123 was investigated. Very slow cooling had a favorable effect upon spheroid structure formation; a high level was reached already after 5. hours. Longer periods decrease the spheroid content because coalescence reactions start taking effect. The period of annealing rather than the rate of cooling determines the extent of spheroid particles formation. Pearlite of MnV-containing steels has a dense and fine structure, and is not influenced by the formation of spheroid carbide particles. The influence of macroscopic occlusions is described. Only limited periods of annealing can be used in the treatment of hollow forgings. The best conditions for the treatment of forgings are discussed. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 13, 11 / SUBM DATE: none / ORIG REF: 008 / OTH REF: 007

SOV REF: 002

Card 1/1 UDC: 620.192.4: 621.785.3

KREJCI, L.; KREJCOVA, H.; TICHY, J.

Optokinetic nystagmus in patients with primary glaucoma.  
Cesk. oftal. 21 no.4:324-333 J1 '65.

1. II oční klinika (prednosta akademik J. Kurz) a neurologická  
klinika (prednosta akademik K. Henner) fakulty všeobecného le-  
karství Karlovy University v Praze.

TICHY, J.; KOMENDA, S.

On bromsulphalein tests (BSP). Pt.4. Vnitřní lek. 11 no.7:  
625-637 J1 '65.

1 I. vnitřní klinika Palackého University v Olomouci (prednosta  
prof. Dr. Pavel Lukl) a Ústav lékařské fyziky Palackého University  
v Olomouci (prednosta doc. Dr. Bruno Schober).

PROCHAZKA, J.; TICHY, J.; SELANTHOVA, L.; FICHELDI, S.

The significance of examining the blood coagulation factors in infectious hepatitis. Vnitřní lek. 11 no.4:376-384, Apr'65.

1. I. vnitřní klinika Palackého University v Olomouci (prednosta: prof. Dr. Pavel. Lukl); Ustav lekárske fyziky Palackého University v Olomouci (prednosta: doc. Dr. Bruno Schöber, MSc.)

MICHALEC, C.; TICHY, J.

Determination of the spectrum in cholesterol esters in the cerebrospinal fluid by paper chromatography. Cas. lek. cesk. 103 no.27:756-757 26 Je'64

1. Laborator pro proteosyntezu fakulty vseobecneho lekarstvi KU [Karlovy university] v Praze (vedouci: prof. dr. J.Horejsi, DrSc.) a Neurologicka klinika fakulty vseobecneho lekarstvi KU [Karlovy university] v Praze (prednosta: akademik K.Henner).



KLOBEC, K.; KOS, A.; TICHA, J.

Palindromic rheumatism - (recurrent oligoarthritis). Cas. lek.  
cesk. 102 no.48:1322-1326 29 N '63.

1. Interni klinika lekarske fakulty PU v Olomouci (prednosta prof.  
Dr. P. Lukl) a Vnitřní vojenské nemocnice v Olomouci (nacelnik  
MUDr. C. Cihalik).

\*

TICHY, J.; PROCHAZKA, J.; BAYER, A.

Hodgkin's disease and the liver. Contribution to the genesis of  
so-called infiltrative liver cirrhosis. Cas. lek. cesk. 101 no.32/33:  
999-1006 17 Ag '62.

1. I. interni klinika lekárske fakulty PU v Olomouci, prednosta prof.  
dr. P. Lukl. Patologickoanatomický ústav lekárske fakulty PU v Olomouci,  
prednosta doc. dr. V. Valach.  
(LIVER CIRRHOSIS) (HODGKIN'S DISEASE)

TICHY, J.; VYSKOCILOVA, L.

Contribution to differential diagnosis of encephalomalacia and encephalorrhagia through the determination of the cholesterol content of the cerebrospinal fluid. Cas. lek. Cesk. 104 no.42:1161-1164 22 0 '65.

1. Neurologická klinika fakulty všeobecného lékařství Karlovy University v Praze (prednosta akademik K. Henner) a Oddelení pro cévní nemoci mozku, Thomayerova nemocnice v Praze-Krci (vedoucí doc. dr. J. Budinova-Smela).

L 13306-66 EWT(d)/T/EWP(1) IJP(c)

ACC NR: AP6006020

SOURCE CODE: CZ/0053/65/014/004/0281/0281

AUTHOR: Komenda, S.; Tichy, J.

ORG: Institute of Medical Physics UP, Olomouc (Ustav lek. fysiky UP); First Clinic of Internal Medicine, Medical Faculty, UP, Olomouc (I. interni klinika lek. fak. UP)

TITLE: <sup>16, 44, 55</sup> Mathematical modelling of the kinetics of physiological processes [This paper was presented during Biophysical Days, Brno, 12 Jun 64.]

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 281

TOPIC TAGS: kinetic equation, physiology, brominated organic compound

ABSTRACT: Development of mathematical equations describing most esthetically hepatic bromsulphalein removal following a single intravenous administration. Orig. art. has: 4 formulas. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1 FW

TICHY, J.

NEORAL, L.

Czechoslovakia

3

Division of Pathological Anatomy OUNZ Olomouc — Hospital  
and Polyclinic (Patologické anatomické oddělení OUNZ Olomouc  
— nemocnice a poliklinika ve Sternberku) Sternberg;  
Director: L. NEORAL, MD.

Brno, Vnitřní lékařství, No 10, Oct 62, pp 1097-1103.

"Giant Cell Granulomatous Myocarditis in Cases of Diabetes  
Mellitus."

Co-authors:

DUSEK, J. Institute of Pathological Anatomy FU (Patologické  
anatomický ústav FU v Olomouci) Olomouc; Director: V. VALACH,  
MD; TICHY, J., First Internal Clinic FU (I. vnitřní klinika  
FU v Olomouci), Olomouc.

TICHY, J.

NEORAL, L.

Czechoslovakia

CZECHOSLOVAKIA

*Handwritten signature and initials*

Division of Pathological Anatomy OUNZ Olomouc -- Hospital  
and Polyclinic (Patologické anatomické oddělení OUNZ Olomouc  
-- nemocnice a poliklinika ve Sternberku) Sternberg;  
Director: L. NEORAL, MD.

Brno, Vnitřní lékařství, No 10, Oct 62, pp 1097-1103.

"Giant Cell Granulomatous Myocarditis in Cases of Diabetes  
Mellitus."

Co-authors:

DUSEK, J. Institute of Pathological Anatomy FU (Patologické  
anatomický ústav FU v Olomouci) Olomouc; Director: V. VALACH,  
MD; TICHY, J., First Internal Clinic FU (I. vnitřní klinika  
FU v Olomouci), Olomouc.

TICHY, J.

Z/039/60/021/02/002/037  
E192/E535

AUTHORS: Svoboda, Rudolf, Tichý, Jan and Zelenka Jiří

TITLE: Synthetic Piezoelectric Materials

PERIODICAL: Slaboproudý obzor, 1960, Vol 21, No 2, pp 66-72

ABSTRACT: A number of synthetic piezoelectrics have been developed since World War 2. The manufacture and the properties of most of these materials are reviewed in the article. Two tartrates EDT and DKT are employed as piezoelectric materials. The first tartrate has the following formula:  $C_6H_{14}N_2O_6$ ; the formula for DKT is  $K_2C_4H_4O_6 \cdot \frac{1}{2} H_2O$ . The monocystals of these substances crystallize in the sphenoidic system. The crystals are illustrated in Fig 1. In both cases the Z axis is identical with the crystallographic axis c and the Y axis is identical with b crystallographic axis. The angle between X axis and the crystallographic a axis is  $15^\circ 30'$  for EDT crystals and only  $51'$  for DKT crystals. Optically both crystals are bi-axial. Various physical and electrical parameters

Card 1/3 of these crystals are indicated in Table 1. The crystals

Z/039/60/021/02/002/037

E192/E535

# Synthetic Piezoelectric Materials

can be used in resonant circuits and give a quality factor up to 30 000. Lithium sulphate LSH having the formula  $\text{Li}_2\text{SO}_4\cdot\text{H}_2\text{O}$  is also a useful piezoelectric material. The crystal of LSH has the form shown in Fig 3. The physical and the electrical constants of this material are indicated in Table 2. Sorbitol hexa-acetate, SHA having the formula  $\text{C}_6\text{H}_8\text{O}_6(\text{COCH}_3)_6$  gives crystals which are soluble in water. The shape of the crystal is illustrated in Fig 4 and its piezoelectric coefficients are indicated in Table 3. This material can also be used in resonant circuits. Phosphates ADP and KDP can be used in electro-acoustics where Rochelle salt has been normally employed; the chemical formula of ADP is  $\text{NH}_4\text{H}_2\text{PO}_4$  while that of KDP is  $\text{KH}_2\text{PO}_4$ . Both materials crystallize in a tetragonal system (Figs 5 and 6). The basic properties of these materials are indicated in Table 4. The crystals of ADP and KDP do not contain any

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Z/039/60/021/02/002/037  
E192/E535

Synthetic Piezoelectric Materials

"crystallized" water and do not easily dissolve. Crystals of sodium chlorate and sodium bromate can also be used as piezoelectric materials. Elastic and piezoelectric coefficients of these substances are indicated in Table 5. A comparison of the above substances is given in Table 6 where the third column indicates the electromechanical coupling coefficient. There are 11 figures, 6 tables and 24 references, 8 of which are Czech, 3 Soviet, 1 German, 1 Swiss and 11 English. ✓

ASSOCIATIONS: Vysoká škola strojní, Liberec (Technical University of Liberec) (Svoboda and Tichý) and TESLA Lanškroun n.p., závod 05, Hradec Králové (TESLA Lanškroun, State Factory 05, Hradec Králové) (Zelenka)

SUBMITTED: October 17, 1959

Card 3/3

TICHY, J.; VONDRUS, K.; SLAVIK, J.

"Noise conditions in electric-power plants."

Energetika. Praha, Czechoslovakia. Vol. 8, no. 12, Dec. 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclass

TICHY, J.; SLAVIK, J. B., prof., RNDr.

The 4th International Congress on Acoustics in Copenhagen. Slatoproudý  
obsor 22 no.12:778-779 D '61.

(Sound)

KRATOCHVILLOVA, K.; TICHY, J.; ZELEENKA, J.

The effect of radiation on the properties of piezoelectric resonators.  
Cs cas fys 12 no. 2:144-151. '62.

1.Katedra matematiky a fysiky, Vysoka skola strojni a textilni,  
Liberec (for Kratochvilova, Tichy).

2.Tesla Lanskroun, zavod 05, Hradec Kralove (for Zelenka)

TICHY, J.; FILIP, B.; CHARAMZA, O.

Unusual causes of dyspepsia in a worker employed in asphalt paint spraying. Pracovní lek. 13 no.2:79-81 Mr '61.

1. I vnitřní klinika UP v Olomouci; přednosta prof. dr. Pavel Lekl,  
z oddělení pro choroby z povolání; vedoucí lékař Dr. M. Barborik,  
z ústředních laboratorí KUNZ Olomouc; prim. Dr. R. Podivínský.

(PAINT toxicol) (GASTROENTEROLOGY etiol)  
(OCCUPATIONAL DISEASES)

TICHY, J.

Traffic accidents from the neurological viewpoint. Acta chir. orthop. trauma. Cech. 28 no.1:80-84 F '61.

1. Neurologická klinika KU, prednosta akademik Kamil Henner.

(ACCIDENTS TRAFFIC)

TICHY, J.

Advantages and disadvantages of bromsulphalein (BSP) retention tests. Cesk. gastroent. vyz. 17 no.3:168-174 Ap '63.

1. Interní klinika lékařské fakulty PU v Olomouci, přednosta  
prof. dr. P. Lukl.

(SULFOBROMOPHTHALEIN) (LIVER FUNCTION TESTS)  
(LIVER DISEASES) (LIVER CIRRHOSIS) (HEPATITIS)

BUCHY, J.

Neurologický ústav

A simple method for determining the inorganic phosphorus in a small quantity of cerebrospinal fluid. esk. neurol. 28 no.140-16  
Ja '65

1. Neurologická klinika fakulty všeobecného lékařství Karlovy  
University v Praze (prezentoval akademik F. Hutter).



SVOBODA, Rudolf; TICHY, Jan; ZELENKA, Jiri

Synthetic piezoelectric materials. Slaboproudy obzor 21 no.2:66-72  
'60. (KBAI 9:6)

1. Vysoka skola strojni, Liberec (for Svoboda, Tichy). 2. TESLA  
Lanskroun n.p., zavod Ot, Hradec Kralove (for Zelenka)  
(Piezoelectric materials)

CZECHOSLOVAKIA/Acoustics - Electroacoustics and Technical Acoustics.J

Abs Jour : Ref Zhur Fizika, No 4, 1960, 9648

Author : Zelenka, Jiri, Tichy Jan

Inst : \* Tesla Lanskroun, Gradcy Karlove; \*\* Vynoke skoly  
strojni, Liberty, Czechoslovakia

Title : Experimental Verification of Relations for the Choice  
of Longitudinally Oscillating Piezoelectric Resonators

Orig Pub : Ceskosl. casop. fyz. 1959, 9, No 5, 463-472

Abstract : The question is discussed of the applicability of the  
relations for the calculation of the parameters of the  
electric equivalent circuit of piezoelectric rods in the  
case of odd and even longitudinal oscillations from the  
point of view of the application for the construction of  
resonators in filters of telephone systems, operating in  
the frequency range from 60 to 300 kcs.

Card 1/1

L 41783-66 EWI(e) JAN/NN  
 ACC NR: AP6031675 SOURCE CODE: CZ/0042/66/000/003/0161/0167

AUTHOR: Hruska, Karel (Graduate physicist; Candidate of sciences; Special assistant);  
Tichy, Jan (Docent; Doctor); Zelenka, Jan (Engineer; Candidate of sciences) 55  
 8

ORG: [Hruska] Department of Physics, Faculty of Sciences, University of Khartoum,  
 Sudan; [Tichy] Department of Physics, Technical Institute of Machinery and Textiles,  
 Liberec (Vysoka skola strojni a textilni, Katedra fyziky); [Zelenka] Tesla Hradec  
 Kralove, n.p., Hradec Kralove

TITLE: Influence of the DC electrical field on the resonance frequency of DKT  
 piezoelectric resonators

SOURCE: Elektrotechnicky casopis, no. 3, 1966, 161-167

TOPIC TAGS: piezoelectric crystal, electric field, direct current

ABSTRACT: Just as in the case of quartz piezoelectric resonators it was observed  
 with DKT resonators that the DC electrical field influences their resonance frequency.  
 The temperature dependence of that influence was investigated. From experimental  
 measurements the components  $g_{241}$  and  $g_{341}$  of the polarization correction tensor of  
 the elastic coefficients were calculated for DKT and proved to be more than order  
 larger than the corresponding known components of natural quartz. This paper was  
 presented by K. Cernik. The authors thank workers of Department of Physics,  
 B. Kantur and Scientific Aspirant, Engineer K. Dadour for assistance with the  
 measurements and calculations. Orig. art. has: 1 figure, 8 formulas and 2 tables.  
 [Based on authors' Eng. abst.] [JPRS: 36,644]

SUB CODE: 09 / SUBM DATE: 15Jun65 / ORIG REF: 012 / OTH REF: 003  
 Card 1/1 0919 0275

CZECHOSLOVAKIA

TICHY, J., HRADIL, I., LEJSEK, K; Chair of Pathological Anatomy, Chair of Histology and Embryology, Chair of Medical Chemistry, Medical Faculty, Charles University (Katedra Patologicke Anatomie, Katedra Histologie s Embryologii, Katedra Lekarske Chemie Lek. Fak. KU) Hradec Kralove.

"Electron-Microscope Picture of Mitochondria of Rat Liver after Whole Body Irradiation by 1400r."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 133

Abstract: Experiments were conducted on 18 white rats. Microscopic examination took place 15 and 60 minutes after the irradiation. No differences between the liver of irradiated rats and controls were found; only the number of vacuoles increased. 2 Czech references. Submitted at the full Meeting of the Physiological Section of the Czechoslovak Medical Society of J.E.Purkyne at Hradec Kralove, 6 Oct 65.

1/1

TICHY, Jaroslav, inz.

Determining an optimal jet propeller for various design conditions. Stroj. cas. 14 no.6:557-572 '63.

1. Strojnicka fakulta Slovenskej vysokej školy technickej,  
Bratislava.

TICHY, Jiri, inz.

Effect of the chemical composition on the mechanical properties  
of large hollow forgings from MnV steel. Hut listy 19 no.78  
499-506 JI '64

1. Research and Testing Institute, Nova hut Klementa Gottwalda  
Ostrava-Kuncice.

KOLMER, Felix; KRNAK, Milan; TICHY, Jiri

Investigation and realization of properties required from the Czechoslovak reverberation chambers to obtain the optimum value of acoustic absorptivity. Slaboproudý obzor 24 no.3:139-145 Mr '63.

1. Vyzkumny ustav zvukove, obrazove a reprodukni techniky, Praha (for Kolmer and Krnak). 2. Katedra fyziky fakulty elektrotechnicke, ~~0000~~ vysoke uceni technicke, Praha (for Tichy).

KOLMER, Felix, inz., C.Sc.; TICHY, Jiri, inz., dr., C.Sc.

Dependence of the acoustical absorption coefficient on the parameters of gouged soft wood fibre plates with a smooth hard surface. Slaboproudy obzor 23 no.7:389-396 J1 '62.

1. Vyzkumny ustav zvukove, obrazove a reprodukeni techniky (for Kolmer). 2. Katadra fyziky fakulty elektrotechnicke, Ceske vysoke uceni technicke (for Tichy).



TICHY, Jiri

Cholesterol in cerebrospinal fluid. Cesk. neur. 24 no.6:399-407 M '61.

1. Neurologicka klinika, prednosta akademik K. Henner.

(CHOLESTEROL cerebrospinal fluid)

TICHY, Jiri, inz., dr., kandidat technických ved.

Noise problems in hydro-electric power plants. El tech obzor 50  
no.10:586-590 0 '61.

1. Katedra fyziky na elektrotechnické fakultě, České vysoké učení  
technické, Praha.

(Water-power electric plants) (Noise)

L 00102-66 EWP(w)/EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWP(l)/EWA(c)/ETC(m)  
 ACCESSION NR: AP5025499 JD/WW/HW CZ/0057/65/000/004/0182/0186

AUTHOR: Tichy, Jiri (Engineer); Ullmann, Jiri (Engineer)

TITLE: Evaluation of defects of hollow forgings by ultrasonic methods

SOURCE: Hutnik, no. 4, 1965, 182-186

TOPIC TAGS: steel, metal forging, metal test, nondestructive test, ultrasonics

ABSTRACT: The tests reveal primarily macroscopic occlusions. The quality of the forging depends on the maximum size, number, linear surface, and location of the occlusions. The concept of the equivalent defect is discussed. Standards used in this respect are described. Methods used for calculations in the evaluation of the defects are discussed. Occlusions up to 3-4 mm size have very little effect upon the notch strength, and upon the tensile strength in steels of Czech Standard 13 123. The principles according to which results of ultrasonic tests allow the classification of hollow forgings into 5 groups are discussed. Results of testing hollow forgings of high pressure steels of the Cr-Mo type are described.

42  
38  
B

Card 1/2

L 00102-66

ACCESSION NR: AP5025499

4  
Ultrasonic tests<sup>14</sup> used in evaluating of steels Standard 13 123 allowed to determine the results of changes in the deoxidation bath temperatures, and conditions required during casting of the body of a steel ingot.

Orig. art. has: 11 figures, 3 graphs, and 1 table.

ASSOCIATION: VZU-NIKG, Ostrava

44,55

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NR REF SOV: 001

OTHER: 011

JPRS

pk  
Card 2/2

8/058/63/000/003/099/104  
A059/A101

AUTHORS: Podobský, Jaroslav, Tichý, Jiří, Slavík, Josef B.

TITLE: Investigation of acoustic high-frequency filters

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 57, abstract 3Zh344  
("Sb. Českosl. věd. techn. společn. zdravotní techn. a vzduchotechn.  
ČSAV", 1962, no. 4, 67 - 102, Czech; summaries in Russian, English,  
French and German)

TEXT: Acoustic high-frequency filters and their properties are considered. From the basic acoustic determinations, theoretical ratios with respect to the attenuation of filters with outlets are derived. The attenuation of the individual filters has been experimentally established on the basis of measurements of the acoustic pressure before and after the filter. The theoretical values are compared with the measured ones, and it is established that they agree well with each other. A correction should be introduced into the ratio for the acoustic mass of the connecting pipes. From the theoretical ratios derived for one number of connecting pipes in the wall, a general ratio valid for an arbitrary

Card 1/2

Investigation of acoustic high-frequency filters

S/058/63/000/003/099/104  
A059/A101

number of connecting pipes at any distances has been established. The calculation of the corresponding ratios for a great number of connecting pipes can be rather laborious. It is, however, possible by an extremely simple method to determine approximately the transmission and attenuation with a great number of connecting pipes. In the paper, the existing theory of acoustic high-frequency filters is specified.

[Abstracter's note: Complete translation]

Card 2/2

SLAVIK, Josef B.; CHALUPOVA, Vera; KLIMES, Bohdan; TICHY, Jiri

Acoustic conditions at the stadium of the 2d National Spartakiad  
1960. Slaboproudý obzor 22 no.5:258-265 '61. (EEAI 10:7)

1. Katedra fyziky na elektrotechnické fakultě České vysoké školy  
technické v Praze.  
(Czechoslovakia—Stadiums)

TICHY, Jiri

Contribution to the problem of muscular dystrophy in carcinomas.  
Cas. lek. cesk. 101 no.28:874-878 13 JI '62.

1. Neurologická klinika fakulty všeobecného lékařství KU v Praze,  
prednosta akademik K. Henner.  
(STOMACH NEOPLASMS complications) (MUSCULAR DYSTROPHY complications)  
(ELECTROMYOGRAPHY)



TICHY, Josef; JIRU, Pavel

Apparatus for velocity measurement of the catalytic oxidation  
of methanol on formaldehyde. Chem Listy 58 no. 4:460-465 Apr '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of  
Sciences, Prague.

TICHY, Josef, inz.

Uniform coloring and graphic arrangement of maps with forest type designation. Lesnictvi 8 no.11:921-926 N '62.

1. Ustav pro hospodarskou upravu lesu ve Zvoleni, pobočka ve ve Frydku-Mistku.

L 33986-66 T/ENP(t)/ETI IJP(c) JD/GG

ACC NR: AP6025479

SOURCE CODE: CZ/0037/66/000/001/0023/0026

AUTHOR: Tichy, Karol

58  
B

ORG: Institute of Macromolecular Chemistry, CSAV, Prague (Ustav makromolekulární chemie, CSAV)

TITLE: Program for three-dimensional Patterson synthesis of monoclinic crystals for the NE 803B computer

16  
21

SOURCE: Ceskoslovensky casopis pro fysiku, no. 1, 1966, 23-26

TOPIC TAGS: computer, crystallography, computer program, mathematic matrix, computer technique/NE 803B computer

ABSTRACT: The synthesis consists of two independent parts. The first is the program Additions P2/m, G2/m which reads the band of reflections with diffractive indices hkl and the square of the structure factor  $|F(hkl)|^2$  and punches the matrices of the first additions over k for calculation of the cuts of the vector density in previously defined levels  $y_1, y_2, \dots, y_M$ . The second part, the program Fourier P2/m, C2/m, carries out matrix operations with trigonometric matrices and matrices of the first additions and punches maps of the vector density cuts. Both programs are written in autocode. The author thanks Engr. B. Sedlack, DrSc., and Doctor K. Toman, Dr.Sc., for their interest in the work, and Engr. Fencel, Stationary Machines, n.p., for his assistance in the programming of the NE 803B computer. Orig.art.has:2formulas /JPRS: 35,386

Cord 1/1 SUB CODE: 09, 20 / SUBM DATE: 28Dec64 / OTH REF: 004

TICHY, L.

Average pollution of the environs of a thermal electric plant with smoke gases. Cesk. hyg. 8 no.1:56-58 F. '63.

1. Okresni hygienicko-epidemiologicka stanice, Most.  
(AIR POLLUTION)

TICHY, L.

CZECHOSLOVAKIA

TICHY, L.

CSER

Regional hygienic and epidemiological Station (Okresni hygienicko-  
epidemiologicka stanice), Most

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